

Abstract

A piezoelectric actuator is proposed, in which at least one piezoelectric element (2; 21; 31; 41, 42) is present, for subjected an actuating element to a tensile force or compressive force. In addition, stabilizing elements (9; 22) are provided, which mounted parallel to the piezoelectric element (2; 21; 31; 41, 42) with a flexible intermediate layer (11) located between the elements. The piezoelectric element (2; 21; 31; 41, 42) and the stabilizing elements (9; 22) have a great length in the effective direction (Z axis) in proportion to their width transversely to the effective direction (X, Y direction).

(Fig. 1)